

ABSTRACT OF THE DISCLOSURE

[0060] There is provided a vibrator which is integrally coupled to a rotating shaft of a motor. A groove portion in which the rotating shaft is fitted is formed in an eccentric load portion, and side walls extending from the eccentric load portion and forming both side edge portions of the groove portion are provided. A portion of a tip portion end surface of each side wall, except at an outer peripheral portion of the side wall and at a side of the groove portion, is caulked from an opening side of the groove portion toward a bottom side thereof, so that the vibrator is integrally coupled to the rotating shaft.